

Appendix III

MATCHING RESULTS IN THE MORTALITY POPULATION

The matching results are described here for the mortality population consisting of 1241 Ranch Hands, their 6171 matched mortality comparisons, and the six unmatched Ranch Hands. The matching procedure is described in the Protocol (Ref. 1, pages 23-26).

All study subjects were matched perfectly on job category. Three mismatches occurred on race because the recorded race designations for three study subjects were found to be incorrect at the LHA interview. These three subjects were comparisons, two were in the enlisted-other stratum (one was originally recorded as Black and was discovered to be non-Black, the other was originally recorded as non-Black and was discovered to be Black), and one was in the enlisted-flight engineer stratum (he was originally recorded as Black and was discovered to be non-Black).

Matching on date of birth was carried out by first expressing date of birth in months from 1 January 1900, to the nearest month; the result is termed month-of-birth. Six discrepancies occurred in matching on month-of-birth due to erroneous months-of-birth for one Ranch Hand and one comparison. These were discovered at the LHA interview. The Ranch Hand, in the non-Black enlisted-other stratum, was discovered to be 72 months older than was recorded prior to the matching. The comparison, in the non-Black officer-pilot stratum, was found to be 15 years younger than was originally recorded. The erroneous Ranch Hand month-of-birth put all five of his matched comparisons 12 months out of range since he was originally perfectly matched to all five mortality comparisons. The erroneous comparison month-of-birth put that comparison 119 months out of range. Given the very small number of mismatches on age and race relative to the number of subjects, their effect was assumed negligible.

The matching by month-of-birth, overall, and within each of the ten job and race categories within the mortality population is summarized in this Appendix. The column headed "Age Difference" lists absolute differences of months-of-birth of Ranch Hands and comparisons. The column headed "Number of Comparisons with RH younger (older)" gives, at each level of age difference, the number of comparisons within the level of age difference and older (younger) than the Ranch Hand to whom they are matched. The column headed "Total Count" gives the total numbers of comparisons having the absolute age differences with their matched Ranch Hand given in the first column; in "Total Percent", these counts are expressed as percentages of 6171. These are cumulated in the last two columns.

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MATCH SUMMARY FOR THE MORTALITY POPULATION

<u>Strata</u>	<u>Age Difference</u>	<u>Number of Comparisons with RH</u>		<u>Total</u>		<u>Cumulative</u>	
		<u>Younger</u>	<u>Older</u>	<u>Count</u>	<u>%</u>	<u>Total</u>	<u>%</u>
Overall	0			4261	69.0	4261	69.0
	1-6	743	706	1449	23.5	5710	92.5
	7-12	77	102	179	2.9	5889	95.4
	13-18	40	36	76	1.2	5965	96.7
	19-24	22	22	44	0.7	6009	97.4
	25-30	12	19	31	0.5	6040	97.9
	31-36	16	14	30	0.5	6070	98.4
	37-42	10	19	29	0.5	6099	98.8
	43-48	9	13	22	0.4	6121	99.2
	49-54	13	7	20	0.3	6141	99.5
	55-60	17	7	24	0.4	6165	99.9
	72	0	5	5	0.1	6170	100.0
	179	0	1	1	0.0	6171	100.0
Officer-pilot Non-Black	0			961	55.2	961	55.2
	1-6	272	259	531	30.5	1492	85.8
	7-12	33	32	65	3.7	1557	89.5
	13-18	20	17	37	2.1	1594	91.6
	19-24	8	12	20	1.1	1614	92.8
	25-30	9	11	20	1.1	1634	93.9
	31-36	13	10	23	1.3	1657	95.2
	37-42	7	18	25	1.4	1682	96.7
	43-48	7	11	18	1.0	1700	97.7
	49-54	11	7	18	1.0	1718	98.7
	55-60	14	7	21	1.2	1739	99.9
	179	0	1	1	0.1	1740	100.0
Officer-Pilot Black	0			0	0.0	0	0.0
	1-6	3	0	3	23.1	3	23.1
	7-12	3	0	3	23.1	6	46.2
	31-36	0	1	1	7.7	7	53.9
	37-42	2	0	2	15.4	9	69.2
	43-48	1	0	1	7.7	10	76.9
	49-54	2	0	2	15.4	12	92.3
	55	1	0	1	7.7	13	100.0
Officer- Navigator Non-Black	0			240	61.5	240	61.5
	1-6	74	70	144	36.9	384	98.5
	7-12	0	6	6	1.5	390	100.0

Appendix III (Continued)
MATCH SUMMARY FOR THE MORTALITY POPULATION

Strata	Age Difference	Number of Comparisons with RH		Total		Cumulative	
		Younger	Older	Count	%	Total	%
Officer-	0			1	10.0	1	10.0
Navigator	1-6	0	1	1	10.0	2	20.0
Black	7-12	2	2	4	40.0	6	60.0
	13-18	0	1	1	10.0	7	70.0
	19-24	0	1	1	10.0	8	80.0
	25-30	0	1	1	10.0	9	90.0
	31-36	0	1	1	10.0	10	100.0
Officer-Other	0			14	11.4	14	11.4
Non-Black	1-6	38	57	95	77.2	109	88.6
	7-12	2	8	10	8.1	119	96.8
	13-18	1	1	2	1.6	121	98.4
	19-24	1	0	1	0.8	122	99.2
	25	0	1	1	0.8	123	100.0
Officer-Other	13-18	2	0	2	100.0	2	100.0
Black							
Enlisted-	0			516	55.2	516	55.2
Flight	1-6	165	141	306	32.7	822	87.9
Engineer	7-12	29	34	63	6.7	885	94.7
Non-Black	13-18	16	14	30	3.2	915	97.9
	19-24	0	7	7	0.7	922	98.6
	25-30	2	6	8	0.9	930	99.5
	31-36	2	1	3	0.3	933	99.8
	37-42	1	0	1	0.1	934	99.9
	46	1	0	1	0.1	935	100.0
Enlisted-	0			10	13.3	10	13.3
Flight	1-6	26	22	48	64.0	58	77.3
Engineer	7-12	7	5	12	16.0	70	93.3
Black	19-24	3	0	3	4.0	73	97.3
	55-58	2	0	2	2.7	75	100.0
Enlisted-	0			2382	90.6	2382	90.6
Other	1-6	116	91	207	7.9	2589	98.5
Non-Black	7-12	1	11	12	0.5	2601	99.0
	13-18	1	3	4	0.2	2605	99.1
	19-24	10	2	12	0.5	2617	99.6
	25-30	1	0	1	0.0	2618	99.6
	31-36	1	1	2	0.1	2620	99.7
	37-42	0	1	1	0.0	2621	99.7
	43-48	0	2	2	0.1	2623	99.8
	72	0	5	5	0.2	2628	100.0
Enlisted-	0			137	53.7	137	53.7
Other	1-6	49	65	114	44.7	251	98.4
Black	7-12	0	4	4	1.6	255	100.0